

MAG TRAFFIC SIGNAL OPTIMIZATION PROGRAM

REQUEST FOR PROJECTS

MAG is a Metropolitan Planning Organization that serves the metropolitan Phoenix area and the many diverse cities, towns and Indian communities within Maricopa County. MAG also serves as the regional forum for planning activities related to publicly owned Intelligent Transportation Systems and Advanced Traffic Management Systems infrastructure in the region.

Traffic Signal Synchronization Program is one of the projects that will be launched through the MAG ITS/TE on-call services contract. The purpose of this particular project is to provide technical assistance to MAG member agencies for improving traffic signal coordination, optimization and review operations through simulation modeling. This program will also assist member agencies in the development of traffic signal coordination networks. The total amount of funds available for this program is \$300,000.

The deadline for project applications submittals is **December 31, 2003**. Please complete and submit the attached application to:

Xiao Qin
Maricopa Association of Governments
302 N. 1st Avenue, Suite 300
Phoenix, Arizona 85003
Fax: (602) 254-6490
Email: xqin@mag.maricopa.gov

The anticipated schedule for launching projects is:

Receive all project applications	December 31, 2003
Review and rank project applications	January 7, 2004
Issue Task Order for projects	January 20, 2004
Commence work on projects	February 1, 2004

Project applications will be reviewed by the Regional Concept of Transportation Operation's (RCTO) Traffic Engineering Steering Group. Qualifying projects submitted by MAG member agencies will be ranked and funded based on the Project Scoring Criteria. Additional requirements are:

A. Requests for assistance on individual projects are being accepted up to a maximum of \$25,000 per project, and could include:

- Acquisition of signal coordination and simulation software (such as Synchro, Transyt 7F or CORSIM).
- Hands-on training in the use of the software.

- Development of signal timings for several signal timing plans.
- Field offset and timing adjustments as required following implementation.
- If necessary, acquisition of turning movement counts for the AM peak, PM peak, and Off-peak.

B. In return for this funding, the Cities are expected to undertake the following:

- Appoint a project manager to be the single source of contact for the agency
- Provide the necessary background information to the On-call consultants, including:
 - Scaled aerial photos or maps of the City to create the background Synchro network.
 - Signal phasing, clearance intervals, lane geometry, and speed limits
- Conduct turning movement counts during the AM peak, PM peak, and Off-peak periods, where necessary.
- Implement the signal timings in the field.
- Maintain the Synchro networks on an on-going basis, and update the signal timings as required.

C. Preference will be given to those projects/cities that:

- Do not have in-house staff resources available, or knowledge in the development of traffic signal timing.
- Have signalized corridors or networks that are not presently coordinated.
- Have corridors or networks that are experiencing high traffic delays.